Films or sheets of blends of amorpous poly(aryl ether ketones) with polyarylates and laminates thereof

Description of Technology: This invention relates to films or sheets made of blends of certain amorphous poly(aryl ether ketones) with polyarylates and to laminates of such films or sheets with polyvinyl fluoride (PVF) films or sheets.

Patent Listing:

1. **US Patent No. 5,124,413**, Issued June 23, 1992, "Films or sheets of blends of amorpous poly(aryl ether ketones) with polyarylates and laminates thereof"

http://patft.uspto.gov/netacgi/nph-Parser?Sect2=PTO1&Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&d=PALL&RefSrch=yes&Query=PN%2F5124413

Market Potential: Poly(aryl ether ketones) are a well known class of engineering polymers that have outstanding mechanical properties and low flammability. Because of that, they are particularly well suited in certain high value applications, such as, for example, in panels used in aircraft interiors.

Poly(aryl ether ketones) generally are known to fall into three classes, poly(ether ketones) (PEKs), poly(ether ether ketones) (PEEKs), and poly(ether ketone ketones) (PEKKs). PEKKs are a valuable class of poly(aryl ether ketones).

Although both the thermoformable PEKK sheets and their laminates with polyvinyl fluoride sheets are of considerable commercial importance, the cost of such sheets is quite high. It thus would be desirable to provide a blend of PEKK with another, less expensive, polymer, which would not impair the outstanding mechanical properties of PEKK and possibly would improve some of its properties or would improve its processability, as compared with PEKK alone.

Benefits:

- Less expensive than other PEKK sheets
- Improved processability
- Maintains outstanding mechanical properties

Applications:

- Aircraft paneling

Contact: Ken Anderson
Director, Entrepreneurial & Small Business Support, Delaware Economic Development Office (DEDO)
Carvel State Building, 820 French Street, Wilmington, DE, 19801
Phone: (302) 577-8496, Fax: (302) 577-8499, Email: Kenneth.R.Anderson@state.de.us